

Remember 0 = nothing = not counted.

So we start with 1.

$$1 + 1 = 2:$$

$$11+ = 211+,$$

$$1 + 1 = 2;$$

$$2 + 1 = 3:$$

$$12+ = 11+1+ = 111++ = 312+,$$

$$2 + 1 = 3;$$

$$3 + 1 = 4:$$

$$13+ = 12+1+ = 11+1+1+ = 1111+++ = 413+,$$

$$3 + 1 = 4;$$

$$4 + 1 = 5:$$

$$14+ = 13+1+ = 12+1+1+ = 11+1+1+1+ = 11111++++ = 514+,$$

$$4 + 1 = 5;$$

$$5 + 1 = 6:$$

$$15+ = 14+1+ = 13+1+1+ = 12+1+1+1+ = 11+1+1+1+1+ = 111111+++++ = 615+,$$

$$5 + 1 = 6;$$

$$6 + 1 = 7:$$

$$16+ = 15+1+ = 14+1+1+ = 13+1+1+1+ = 12+1+1+1+1+ = 11+1+1+1+1+1+ = 1111111++++++ = 716+,$$

$$6 + 1 = 7;$$

$$7 + 1 = 8:$$

$$17+ = 16+1+ = 15+1+1+ = 14+1+1+1+ = 13+1+1+1+1+ = 12+1+1+1+1+1+ = 11+1+1+1+1+1+1+ = 11111111+++++++ = 817+,$$

$$7 + 1 = 8;$$

$$8 + 1 = 9:$$

$$18+ = 17+1+ = 16+1+1+ = 15+1+1+1+ = 14+1+1+1+1+ = 13+1+1+1+1+1+ = 12+1+1+1+1+1+1+ = 11+1+1+1+1+1+1+1+ = 111111111+++++++ = 918+,$$

$$8 + 1 = 9;$$

$$9 + 1 = 1:$$

$$19+ = 18+1+ = 17+1+1+ = 16+1+1+1+ = 15+1+1+1+1+ = 14+1+1+1+1+1+ = 13+1+1+1+1+1+1+ = 12+1+1+1+1+1+1+1+ = 11+1+1+1+1+1+1+1+1+ = 1111111111+++++++ = 1019+ = 119+,$$

$$9 + 1 = 1.$$